

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). Catheter (1) having a catheter body (2), the interior of which forms a first catheter lumen (4), which serves to accommodate a guide wire (15) during the introduction of the catheter into the body of a patient, having at least one partition (5) disposed in the interior, which divides off at least one further catheter lumen (6) in the interior,

~~characterized in that~~ wherein the catheter body (2) has a tubular outer wall (3) and ~~that~~ the cross-sectional area (F2) of the further catheter lumen (6) is smaller than the cross-sectional area (F1) of the first catheter lumen (4), and the further catheter lumen (6) is disposed in such a manner that it has a wall section (7) that is part of the tubular outer wall (3).

Claim 2 (currently amended). Catheter according to claim 1, ~~characterized in that~~ wherein the cross-sectional area (F1) of the first catheter lumen (4) and the cross-sectional area (F2) of

the further catheter lumen (6) have a common axis of symmetry in the cross-sectional plane, and the quotient of the cross-sectional area (F1) of the first catheter lumen (4) and the cross-sectional area (F2) of the further catheter lumen (6) is greater than the square of the quotients of the width (D1) of the first catheter lumen (4), measured along the common axis of symmetry, and the width (D2) of the further catheter lumen (6), measured along the common axis of symmetry.

Claim 3 (currently amended). Catheter according to claim 1 or 2, ~~characterized in that~~ wherein the partition (5) runs in arc shape over at least one section of same.

Claim 4 (currently amended). Catheter according to claim 3, ~~characterized in that~~ wherein the arc-shaped partition (5) has a convex side that faces the first catheter lumen (4), and a concave side that faces the further catheter lumen (6).

Claim 5 (currently amended). Catheter according to ~~one of the preceding claims~~ claim 1, ~~characterized in that~~ wherein the cross-sectional area (F1) of the first catheter lumen (4) has a rounded sickle shape.

Claim 6 (currently amended). Catheter according to ~~one of the preceding claims~~ claim 1, characterized in that wherein the cross-sectional area (F2) of the further catheter lumen (6) is round.

Claim 7 (currently amended). Catheter according to ~~one of the preceding claims~~ claim 1, characterized in that wherein a temperature sensor is disposed in the further catheter lumen (6).

Claim 8 (currently amended). Catheter according to claim 7, characterized in that wherein the temperature sensor is disposed in the vicinity of the catheter tip (9).

Claim 9 (currently amended). Catheter according to claim 6 or 7, characterized in that wherein the cross-sectional area of the temperature sensor fills the cross-sectional area of the further catheter lumen (6) by at least four-fifths.

Claim 10 (currently amended). Catheter according to ~~one of claims 7 to 9~~, characterized in that wherein the cross-sectional

area of the temperature sensor fills the cross-sectional area of the further catheter lumen (6) completely.

Claim 11 (currently amended). Catheter according to ~~one of the preceding claims~~ claim 1, characterized in that wherein an optical fiber sensor is disposed in the further catheter lumen (6).

Claim 12 (currently amended). Catheter according to ~~one of the preceding claims~~ claim 1, characterized in that wherein the further catheter lumen (6) is open in the region of the catheter tip.

Claim 13 (currently amended). Catheter according to ~~one of claims 1 to 11~~, characterized in that wherein the further catheter lumen (6) is closed in the region of the catheter tip.

Claim 14 (currently amended). Catheter according to ~~one of the preceding claims~~ claim 1, characterized in that wherein the catheter body is made from plastic having a Shore hardness of 60D to 85D.

Claim 15 (currently amended). Catheter according to claim 14, ~~characterized in that~~ wherein the plastic is polyurethane.

Claim 16 (currently amended). Catheter system according to ~~one of the preceding claims~~ claim 1, having a guide wire (15), ~~characterized in that~~ wherein the guide wire (15) has a diameter that amounts to 65% to 95% of the distance (D1) between the partition (5) and the outer wall (3).